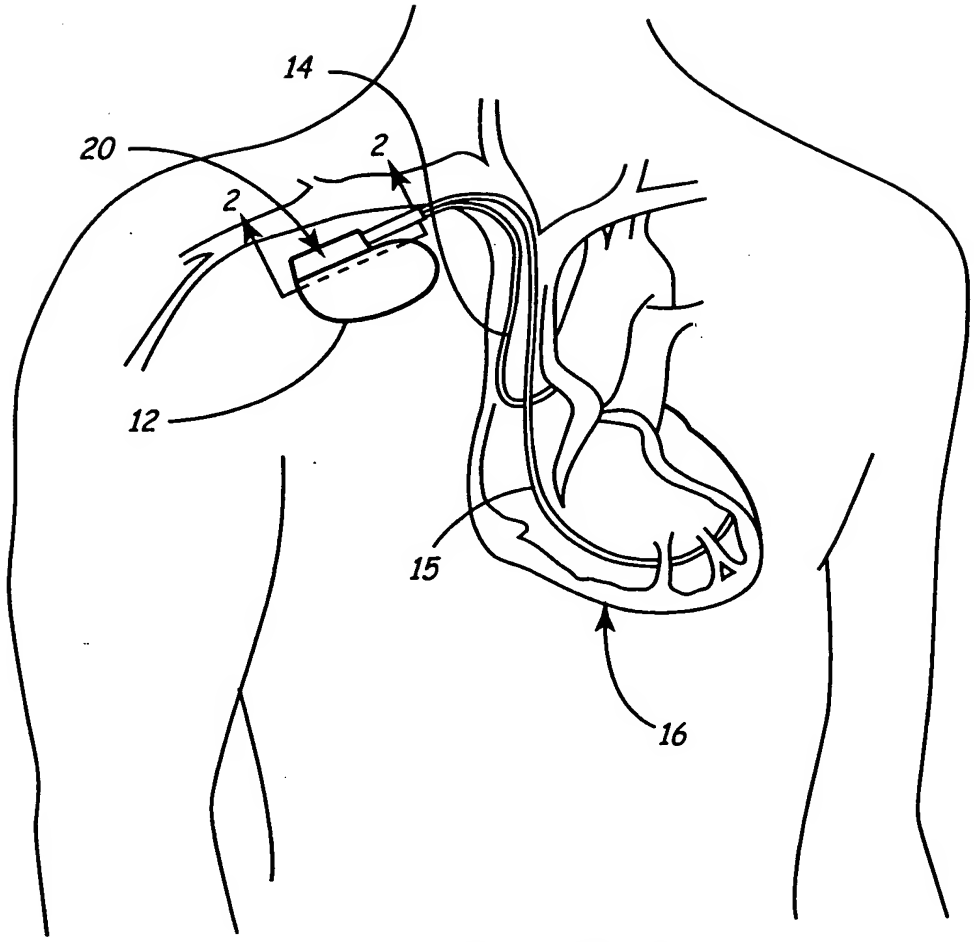
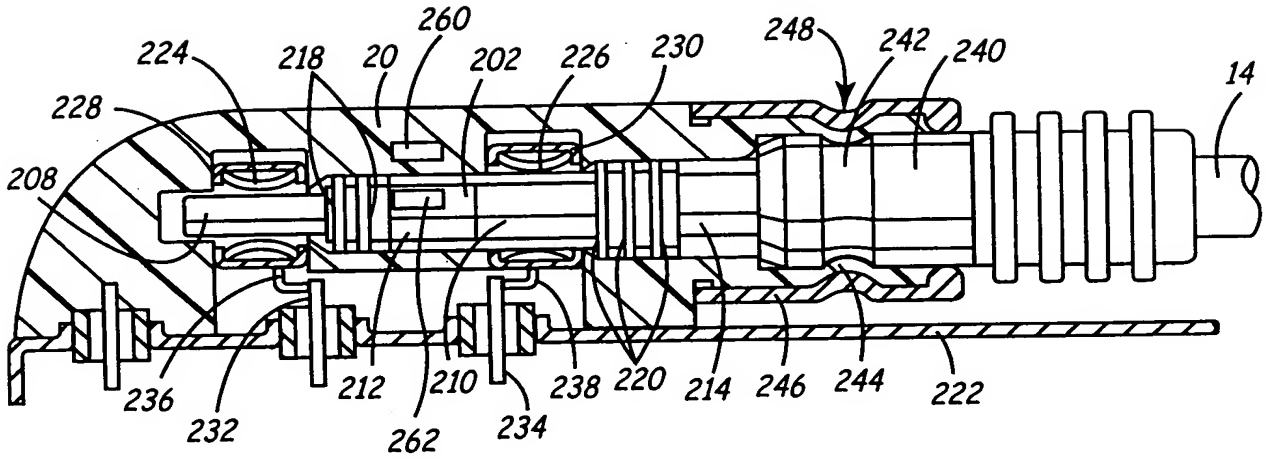


FIGURE 1


260
224
218
20
202
226
230
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242
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14
228
208
236
232
212
262
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238
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214
246
244
222

FIGURE 2

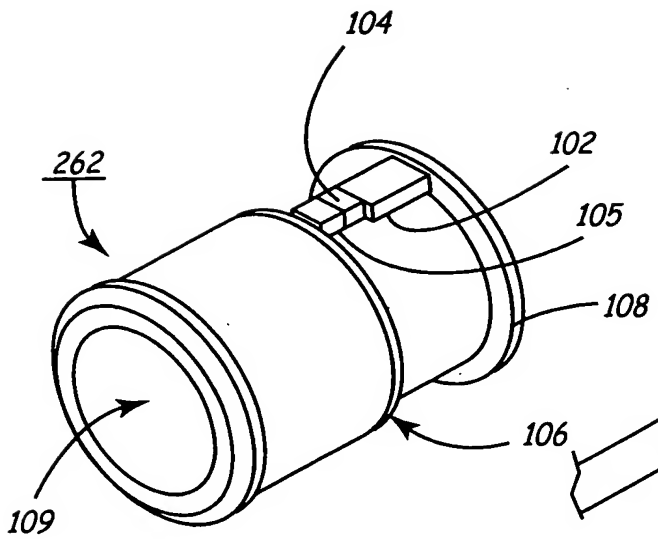


FIGURE 3

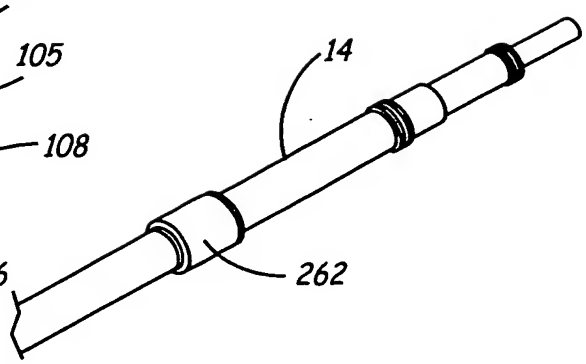


FIGURE 4

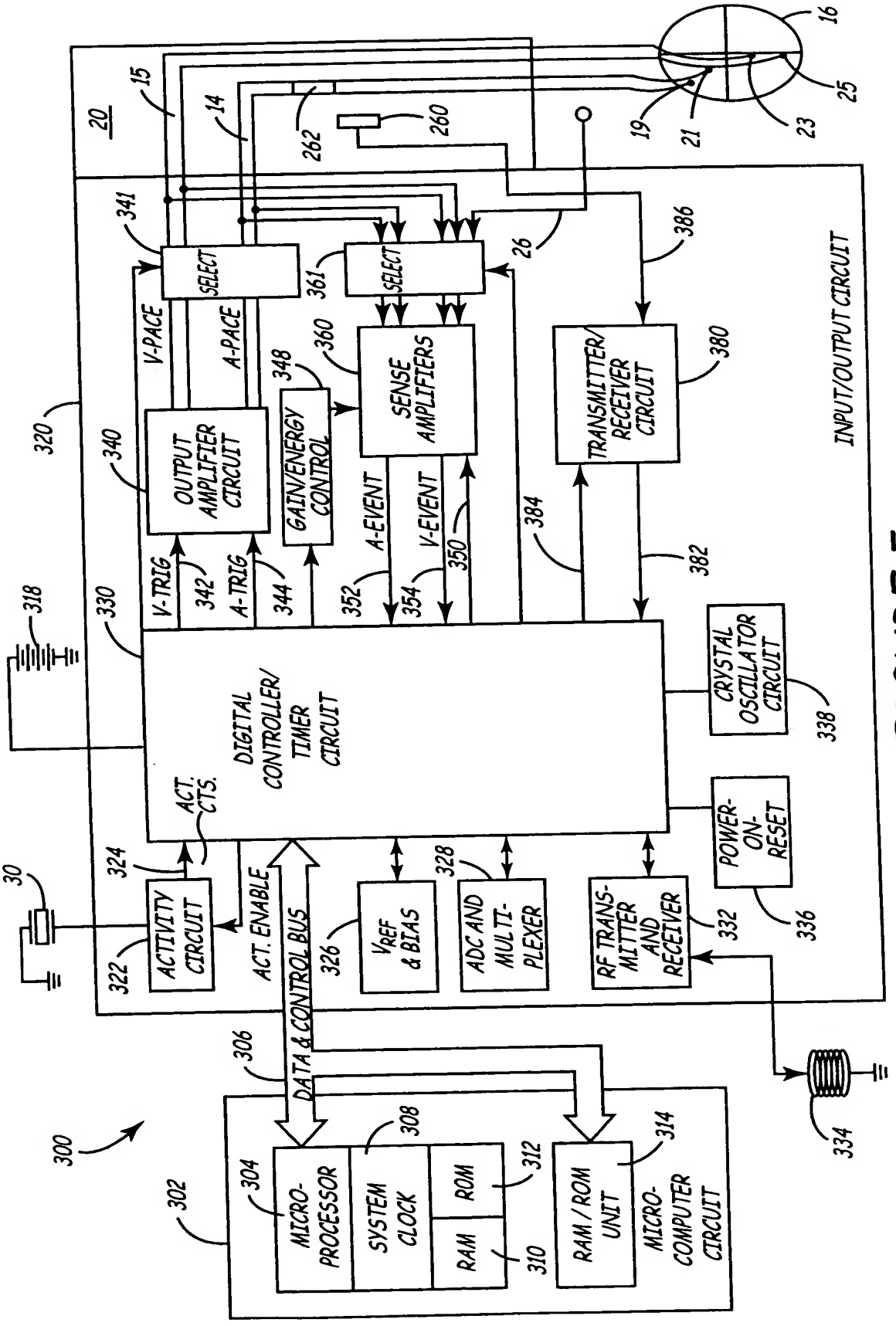

300
302
304
MICRO-PROCESSOR
308
SYSTEM CLOCK
ROM
312
RAM
310
RAM / ROM UNIT
314
MICRO-COMPUTER CIRCUIT
306
DATA & CONTROL BUS
ACT. ENABLE
ACT. CTS.
DIGITAL CONTROLLER/ TIMER CIRCUIT
330
ACTIVITY CIRCUIT
322
324
30
318
320
340
OUTPUT AMPLIFIER CIRCUIT
V-TRIG
342
A-TRIG
344
V-PACE
A-PACE
341
SELECT
361
SELECT
348
GAIN/ENERGY CONTROL
360
SENSE AMPLIFIERS
A-EVENT
V-EVENT
350
352
354
384
386
TRANSMITTER/ RECEIVER CIRCUIT
380
382
INPUT/OUTPUT CIRCUIT
20
15
14
262
260
26
16
19
21
23
25
CRYSTAL OSCILLATOR CIRCUIT
338
POWER-ON-RESET
336
RF TRANS-MITTER AND RECEIVER
332
334
ADC AND MULTI-PLEXER
328
VREF & BIAS
326

FIGURE 5

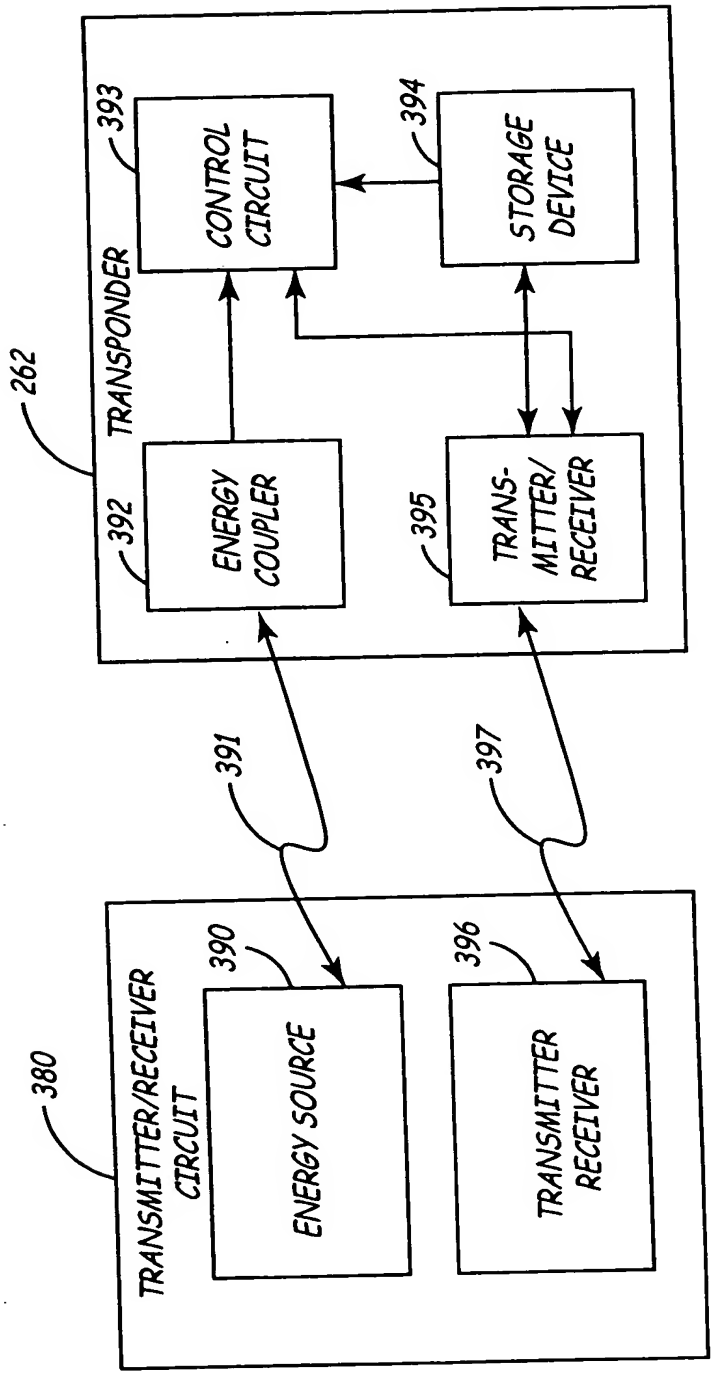
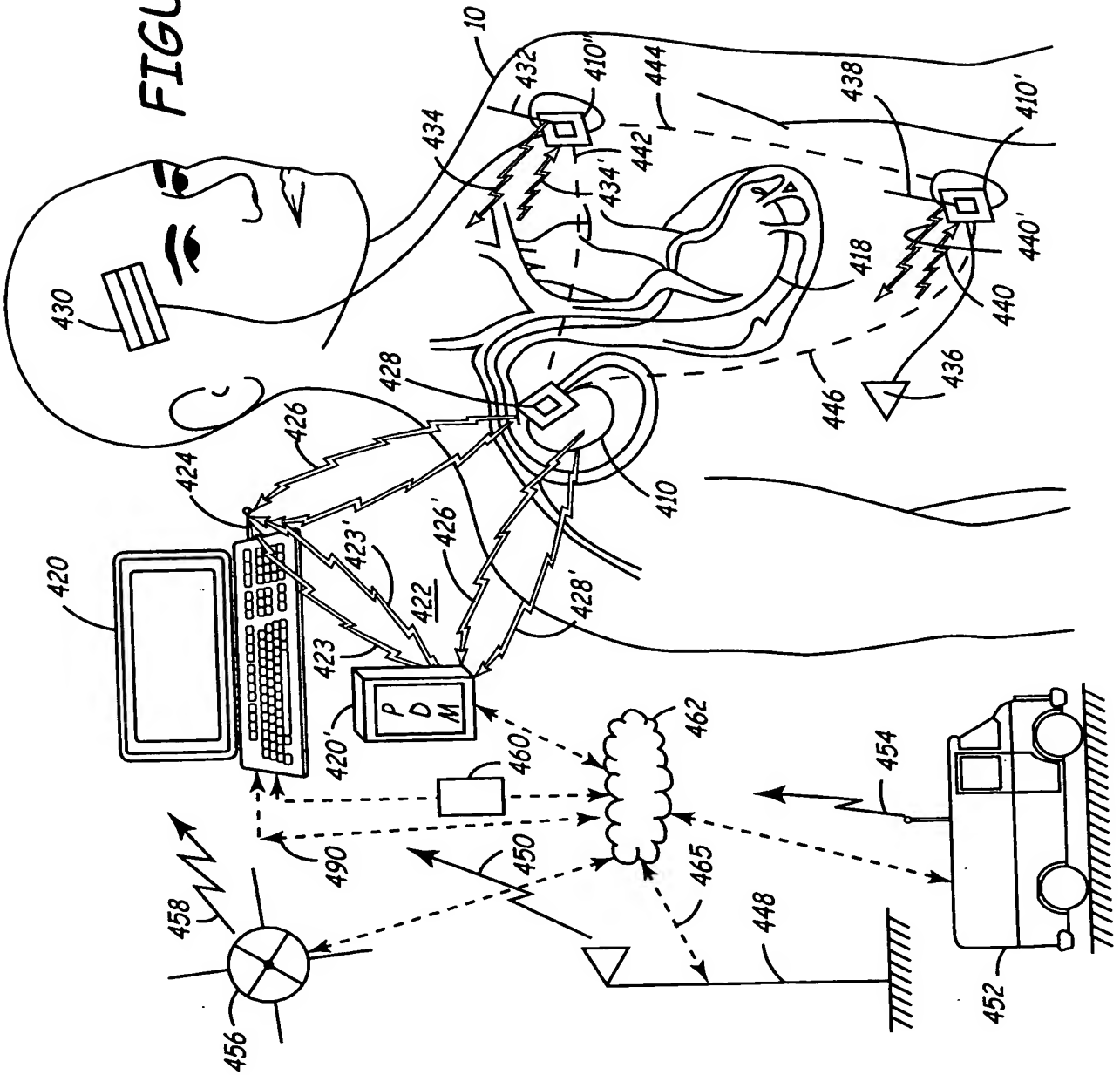

262
TRANSPONDER
393
CONTROL CIRCUIT
394
STORAGE DEVICE
392
ENERGY COUPLER
395
TRANS-MITTER/ RECEIVER
391
397
380
TRANSMITTER/RECEIVER CIRCUIT
390
ENERGY SOURCE
396
TRANSMITTER RECEIVER

FIGURE 6

FIGURE. 7


10
410
410'
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465
490
PDM

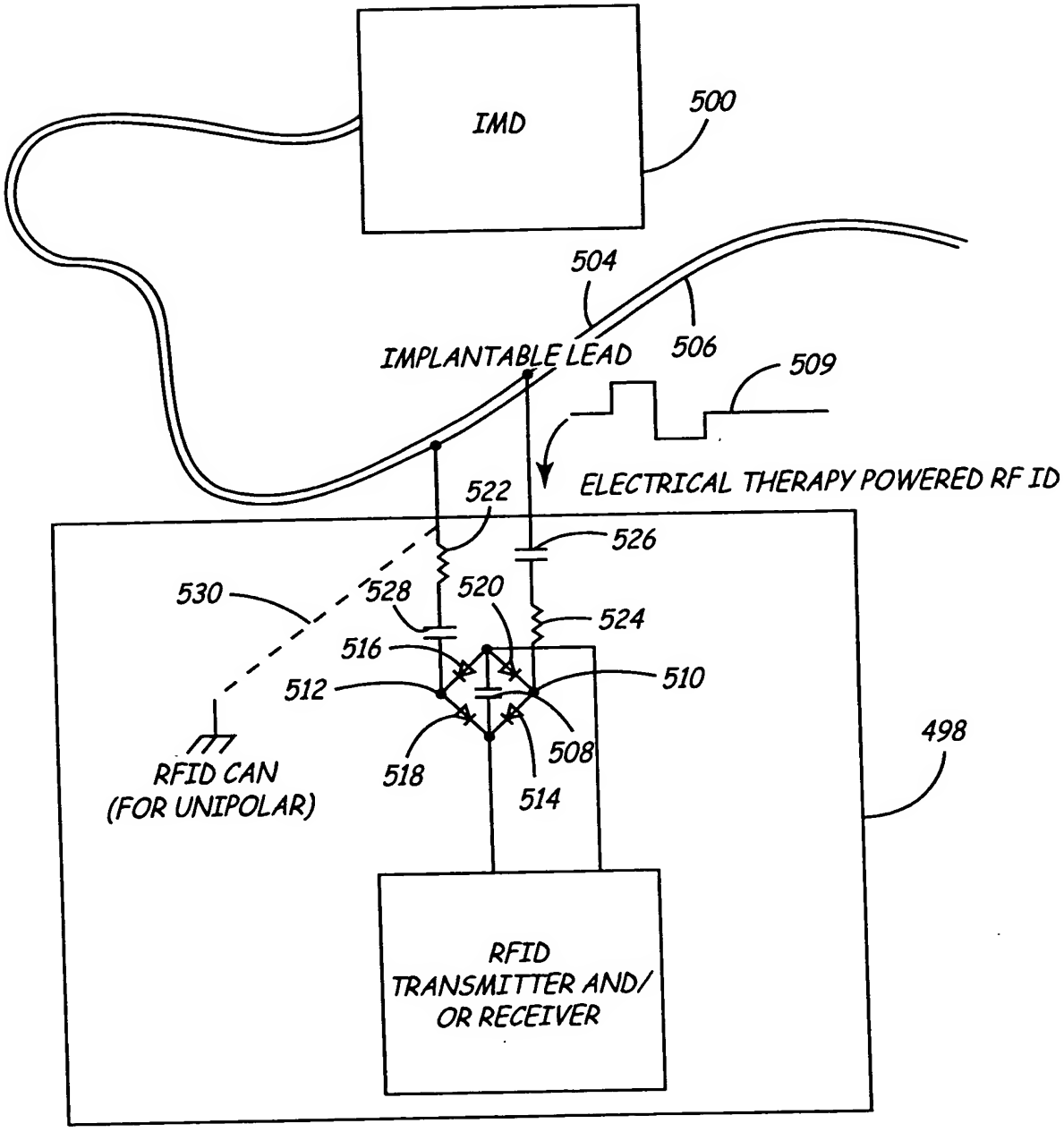
IMD
500
504
506
IMPLANTABLE LEAD
509
ELECTRICAL THERAPY POWERED RF ID
522
526
530
528
520
524
516
512
510
508
518
514
RFID CAN
(FOR UNIPOLAR)
498
RFID
TRANSMITTER AND/
OR RECEIVER

FIGURE 8